

Patent Claims

1. A multizone air conditioning system of a motor vehicle, having, as viewed in the direction of airflow, a control element (7') for controlling the temperature, a vaporizer (4) and a heater (5) which are arranged in an air guiding housing (2), the air guiding housing (2) having dividing walls (8), characterized in that at least one dividing element (9; 16) for the sealed division of the individual zones of the air conditioning system (1) is provided on the heater (5) and/or on a supplementary heater (6), which dividing element (9; 16) interacts with components which are adjacent to the dividing walls (8) and/or dividing elements (6; 19).

2. The air conditioning system as claimed in claim 1, characterized in that the control element (7') is arranged in front of the heater (5).

3. The air conditioning system as claimed in claim 1 or 2, characterized in that one control element (7') is provided per zone.

4. The air conditioning system as claimed in one of the preceding claims, characterized in that a supplementary heater (6) is provided arranged ahead of or behind the heater (5).

5. The air conditioning system as claimed in one of the preceding claims, characterized in that the dividing element (9; 16) is provided on the heater (5) and/or supplementary heater (6).

6. The air conditioning system as claimed in claim 5, characterized in that the dividing element (9; 16) is

injection molded or clipped onto the heater (5) and/or onto the supplementary heater (6).

7. The air conditioning system as claimed in claim 5 or 6, characterized in that the dividing element (9) bridges an undercut which is present between the network of the heater (5) and the collecting tanks of the heater (5).
8. The air conditioning system as claimed in one of the preceding claims, characterized in that the dividing element (9; 16) is of cross-shaped configuration.
9. The air conditioning system as claimed in one of the preceding claims, characterized in that the dividing element (9; 16) has a frame.
10. A multizone air conditioning system of a motor vehicle, having, as viewed in the direction of airflow, a control element (7') for controlling the temperature, a vaporizer (4) and a heater (5) having a network and collecting tanks which are arranged in an air guiding housing (2), the air guiding housing (2) having dividing walls (8), characterized in that the network of the heater is as wide in the direction of airflow as the adjacent collecting tanks of the heater and bears tightly directly against a dividing wall.